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APPLICATION NO	).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,828		12/10/2001	Mladomir Tomic	08468/01-3675	2545	
8840	7590	01/09/2004		EXAMINER		
ALCOA			FONTAINE, MONICA A			
	ECHNICA INICAL DI	L CENTER RIVE	ART UNIT	PAPER NUMBER		
ALCOA C	ENTER, I	PA 15069-0001	1732			

DATE MAILED: 01/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)					
		10/006,82	8	TOMIC, MLADOMIR					
	Office Action Summary	Examiner		Art Unit					
		Monica A I		1732					
Period fo	Th MAILING DATE of this communication a or Reply	ppears on the	cov rsh et with th c	orrespond nce addres	is				
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION maions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by staticately received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	J. 1.136(a). In no eve eply within the statu od will apply and wil ute, cause the appl	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this commu D (35 U.S.C. § 133).	nication.				
1)⊠	Responsive to communication(s) filed on 10	December 20	<u>001</u> .						
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ Th	is action is no	n-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)🖂	☑ Claim(s) <u>1-31</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	)☐ Claim(s) is/are allowed.								
6)⊠	☑ Claim(s) <u>1-31</u> is/are rejected.								
7)	☐ Claim(s) is/are objected to.								
8)[	Claim(s) are subject to restriction and	l/or election re	equirement.						
Applicat	ion Papers								
9)[	The specification is objected to by the Exami	ner.							
10)⊠	The drawing(s) filed on 19 February 2002 is/s	are: a)⊠ acc	epted or b) dobjecte	d to by the Examiner.					
	Applicant may not request that any objection to the	ne drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the corre	•							
11)	The oath or declaration is objected to by the	Examiner. No	te the attached Office	Action or form PTO-1	52.				
Priority (	under 35 U.S.C. §§ 119 and 120								
* ( 13)	Acknowledgment is made of a claim for forei  All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bures See the attached detailed Office action for a li Acknowledgment is made of a claim for dome ince a specific reference was included in the foreign language packnowledgment is made of a claim for dome acknowledgment is made of a claim for dome.	ents have been ents have been iority docume eau (PCT Rule st of the certif stic priority ur first sentence provisional ap	n received. n received in Applications have been received in 17.2(a)). fied copies not received and 19.5.C. § 119(a) of the specification or plication has been received as 5 U.S.C. §§ 120	on No ed in this National Staged. e) (to a provisional application Data eived. and/or 121 since a sp	olication) a Sheet. pecific				
Attachmen			4)	(PTO 413) Pages No(s)					
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	) <u>121001</u> .	· —	(PTO-413) Paper No(s) atent Application (PTO-152					

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Laguerre (U.S. Patent 3,806,998).

Regarding Claim 1, Laguerre shows that it is known to carry out a method for making a recloseable package (Abstract; Column 2, lines 6-15), the method comprising concurrently extruding the package body, the pair of closure profiles, and the pair of retaining shoulders from a single extrusion die to form a package structure (Column 2, lines 6-15; Column 2, lines 1-2, 26-28).

Regarding Claim 16, Laguerre shows that it is known to carry out a method for making a recloseable package (Abstract; Column 2, lines 6-15), the method comprising extruding a package body having first and second sides that face opposite directions (Figure 2, Column 2, lines 7-15), extruding a pair of closure profiles adapted to be interconnected with one another (Figure 2, elements 15 and 17), extruding a pair of slider retaining shoulders adapted for retaining a slider on the recloseable package (Figure 2, elements 25 and 27), forming a precursor package structure by connecting the closure profiles and the retaining shoulders to the package body while the closure profiles, the retaining shoulders, and the package body are in a molten

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state, the closure profiles of the precursor package structure being positioned to project outward from the first side of the package body, and the retaining shoulders of the precursor package structure being positioned to project outwardly from the second side of the package body (Figure 2); cooling the molten precursor package structure to solidify the closure profiles, the retaining shoulders, and the package body (Column 2, lines 7-15 (a known step in the cited extrusion process)).

Regarding Claim 17, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, including a method wherein the package body, the closure profiles, and the retaining shoulders are simultaneously extruded from a single die (Column 2, lines 7-15).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 22, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre, in view of Broderick et al. (U.S. Patent 4,906,310).

Regarding Claim 2, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a water bath cooling mechanism. Broderick et al., hereafter "Broderick," show that it is known to carry out a method of making a recloseable

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article comprising cooling the package structure by submersion in a cooling bath (Figure 1; Column 3, lines 45-46). Broderick and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Broderick's cooling mechanism during Laguerre's molding process in order to quickly and efficiently cool his molded article.

Regarding Claim 3, Laguerre shows the process as claimed as discussed in the rejection of Claims 1 and 2 above, but he does not show an angle at which the molded article is cooled. Broderick shows that it is known to carry out a method of making a resealable article wherein the package enters the cooling bath generally at a right angle relative to a top surface of the cooling bath (Figure 1). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to position Laguerre's package at a right angle to the cooling medium, as in Broderick, in order to encourage homogeneous cooling of the molded article.

Regarding Claim 22, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show a water bath cooling medium. Broderick shows that it is known to carry out a method of making a recloseable article comprising cooling the package structure by submersion in a cooling bath (Figure 1; Column 3, lines 45-46). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Broderick's cooling mechanism during Laguerre's molding process in order to quickly and efficiently cool his molded article.

Regarding Claim 29, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show an angle at which the molded article is cooled.

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Broderick shows that it is known to carry out a method of making a recloseable article wherein the precursor package is cooled at a water bath, and the package structure enters the water bath generally at a right angle relative to a top surface of the water bath (Column 3, lines 45-46; Figure 1). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to position Laguerre's package at a right angle to the cooling medium, as in Broderick, in order to encourage homogeneous cooling of the molded article.

Claims 4, 13-14, 18, 23, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre, in view of Noguchi (U.S. Patent 3,945,872).

Regarding Claim 4, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a spraying cooling mechanism. Noguchi shows that it is known to carry out a method of making a recloseable article comprising cooling the package structure by spraying a coolant on the package structure (Column 2, lines 53-68; Column 3, lines 43-65). Noguchi and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Noguchi's spray cooling mechanism in Laguerre's process in order to cool his articles without needing a large space for a water bath.

Regarding Claim 13, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show an extrusion direction. Noguchi shows that it is known to carry out a method of making a recloseable article wherein the package structure is vertically extruded (Figure 1). It would have been prima facie obvious to one of ordinary skill in the art at

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the time the invention was made to extrude Laguerre's article in Noguchi's vertical direction to avoid unwanted distortion of the article.

Regarding Claim 14, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show specific locations of the closure profiles on the package structure. Noguchi shows that it is known to carry out a method of making a recloseable article comprising forming the closure profiles at opposite edges of the package structure (Figure 2). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to form Laguerre's closures in Noguchi's arrangement in order to increase the ease of assembling the product after it is formed.

Regarding Claim 18, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show forming the package parts from different dies. Noguchi shows that it is known to carry out a method of making a recloseable article wherein the package body is extruded at a first extrusion die, and at least one pair of the pairs of retaining shoulders and closure profiles is extruded from a second separate extrusion die (Column 1, lines 40-44). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Noguchi's separate dies during Laguerre's molding process in order to enable easy variation of a single part of the total package.

Regarding Claim 23, Laguerre shows the process as claimed as discussed in the rejection of Claim 16, but he does not show a spraying cooling mechanism. Noguchi shows that it is known to carry out a method of making a recloseable article comprising cooling the package structure by spraying a coolant on the package structure (Column 2, lines 53-68; Column 3, lines 43-65). It would have been prima facie obvious to one of ordinary skill in the art at the time the

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invention was made to use Noguchi's spray cooling mechanism in Laguerre's process in order to cool his articles without needing a large space for a water bath.

Regarding Claim 30, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show specific locations of the closure profiles on the package structure. Noguchi shows that it is known to carry out a method of making a recloseable article comprising forming the closure profiles at opposite edges of the package structure (Figure 2). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to form Laguerre's closures in Noguchi's arrangement in order to increase the ease of assembling the product after it is formed.

Claims 5, 12, 19, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre, in view of Giljam et al. (U.S. Patent 5,053,091).

Regarding Claim 5, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show the use of a chill roller. Giljam et al., hereafter "Giljam," show that it is known to carry out a method of making a recloseable article comprising cooling the package structure by contact with a chill roller (Column 2, lines 41-61). Giljam and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Giljam's chill roller to cool Laguerre's molded package in order to avoid the possibility of unwanted reactions between the product and a sprayed cooling liquid or potential oversaturation and flooding.

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Regarding Claim 12, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a roller which prevents distortion. Giljam shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the roller includes a resilient outer surface having sufficient resiliency to prevent the closure profiles from deforming as the package structure is conveyed about the roller (Column 9, lines 7-20). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Giljam's roller which prevents deformation during Laguerre's process in order to obtain products which meet critical specifications.

Regarding Claim 19, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show the use of a chill roller. Giljam et al., hereafter "Giljam," show that it is known to carry out a method of making a recloseable article comprising cooling the package structure by contact with a chill roller (Column 2, lines 41-61). Giljam and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Giljam's chill roller to cool Laguerre's molded package in order to avoid the possibility of unwanted reactions between the product and a sprayed cooling liquid, or potential oversaturation and flooding.

Regarding Claim 28, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show a roller which prevents distortion. Giljam shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the roller includes a resilient outer surface having

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sufficient resiliency to prevent the closure profiles from deforming as the package structure is conveyed about the roller (Column 9, lines 7-20). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Giljam's roller which prevents deformation during Laguerre's process in order to obtain products which meet critical specifications.

Claims 6, 7, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre and Giljam as applied to claims 1, 5, 16 and 19 above, and further in view of Noguchi.

Regarding Claims 6 and 7, Laguerre and Giljam shows the process as claimed as discussed in the rejection of Claims 1 and 5 above, but they do not show spraying coolant on the closure profiles. Noguchi shows that it is known to carry out a method of making a recloseable article including further cooling of the closure profiles by spraying a cooling fluid on the closure profiles (Column 2, lines 53-68; Column 3, lines 43-65). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to cool the closure profiles, as in Noguchi, during Laguerre's and Giljam's molding process in order to ensure complete cooling of the entire molded package.

Regarding Claims 20 and 21, Laguerre and Giljam shows the process as claimed as discussed in the rejection of Claims 16 and 19 above, but they do not show spraying coolant on the closure profiles. Noguchi shows that it is known to carry out a method of making a recloseable article including further cooling of the closure profiles by spraying a cooling fluid on the closure profiles (Column 2, lines 53-68, Column 3, lines 43-65). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to cool the

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closure profiles, as in Noguchi, during Laguerre's and Giljam's molding process in order to ensure complete cooling of the entire molded package.

Claims 8-11, and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre, in view of Yano (U.S. Patent 4,555,282).

Regarding Claim 8, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a conveying roller having different diameters. Yano shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the first side of the package body faces the roller as the package structure is conveyed about the roller, and wherein the roller includes reduced diameter portions that correspond to the closure profiles and an increased diameter portion that corresponds to the package body (Column 8, lines 61-68, Column 9, lines 1-11). Yano and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having different diameter portions as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 9, Laguerre shows the process as claimed as discussed in the rejection of Claims 1 and 8 above, but he does not show a roller with grooves. Yano shows that it is known to carry out a method of making a recloseable article wherein the reduced diameter portions comprise grooves (Column 8, lines 61-68). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having

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grooves as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 10, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a conveying roller having different diameters. Yano shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the second side of the package body faces the roller as the package structure is conveyed about the roller, and wherein the roller includes an increased diameter portion that corresponds to the package body (Column 8, lines 61-68; Column 9, lines 1-11). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having different diameter portions as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 11, Laguerre shows the process as claimed as discussed in the rejection of Claims 1 and 10 above, but does not show a roller having different diameters. Yano shows that it is known to carry out a method of making a recloseable article wherein the roller includes reduced diameter portions corresponding to the pair of retaining shoulders of the package structure (Column 8, lines 61-68). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having grooves as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 24, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show a conveying roller having different diameters. Yano

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shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the first side of the package body faces the roller as the package structure is conveyed about the roller, and wherein the roller includes reduced diameter portions that correspond to the closure profiles and an increased diameter portion that corresponds to the package body (Column 8, lines 61-68; Column 9, lines 1-11). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having different diameter portions as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 25, Laguerre shows the process as claimed as discussed in the rejection of Claims 16 and 24 above, but he does not show a roller with grooves. Yano shows that it is known to carry out a method of making a recloseable article wherein the reduced diameter portions comprise grooves (Column 8, lines 61-68). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having grooves as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 26, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show a conveying roller having different diameters. Yano shows that it is known to carry out a method of making a recloseable article comprising conveying the package structure about a roller, wherein the second side of the package body faces the roller as the package structure is conveyed about the roller, and wherein the roller includes an increased diameter portion that corresponds to the package body (Column 8, lines

61-68; Column 9, lines 1-11). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having different diameter portions as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Regarding Claim 27, Laguerre shows the process as claimed as discussed in the rejection of Claims 16 and 26 above, but does not show a roller having different diameters. Yano shows that it is known to carry out a method of making a recloseable article wherein the roller includes reduced diameter portions corresponding to the pair of retaining shoulders of the package structure (Column 8, lines 61-68). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Yano's roller having grooves as a conveying device in Laguerre's process in order to collect the molded articles without damaging the geometry of the articles.

Claims 15 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laguerre, in view of Ausnit (U.S. Patent 4,196,030).

Regarding Claim 15, Laguerre shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show the casting of a peel seal. Ausnit shows that it is known to carry out a method of making a recloseable article comprising casting a peel seal and incorporating the peel seal into the package structure prior to cooling (Column 5, lines 13-14, 20-30). Ausnit and Laguerre are combinable because they are concerned with a similar technical field, namely, that of processes which yield resealable containers. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to include a

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peel seal, as in Ausnit, in Laguerre's molded package in order to provide double protection in the event that the closures come apart during their use.

Regarding Claim 31, Laguerre shows the process as claimed as discussed in the rejection of Claim 16 above, but he does not show the casting of a peel seal. Ausnit shows that it is known to carry out a method of making a recloseable article comprising casting a peel seal and incorporating the peel seal into the package structure prior to cooling (Column 5, lines 13-14, 20-30). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to include a peel seal, as in Ausnit, in Laguerre's molded package in order to provide double protection in the event that the closures come apart during their use.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with regard to the making of resealable packages:

- U.S. Patent 4,832,768 to Takahashi
- U.S. Patent 5,106,566 to McCree
- U.S. Patent 6,152,600 to Tomic

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A Fontaine whose telephone number is 571-272-1198. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 703-305-5493. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Maf

December 31, 2003

MARK EASHOO, PH.D

Act Unit 1732 02/Jan/04